

### **Amendment to the Claims**

This listing of the claims replaces all prior versions and listings of claims in the application. Please amend claims 1 through 9 and add new claims 10 and 11 as follows:

1. (Currently amended). ~~A method~~Method of transmitting data over a wireless link,~~wherein it comprises the following steps, the method comprising:~~

~~insertion of~~inserting the data into packets according to a format corresponding to at least a certain layer or layers of a first protocol for data transmission over ~~at~~the wireless network;  
~~constructing use of these packets to form~~ a frame in accordance with a second protocol for data transmission over ~~at~~the wireless network, the second protocol being different from the first protocol, the frame comprising said packets; and

~~transmission~~transmitting the constructed frame over the wireless network according to the second protocol.

2. (Currently amended) ~~The method~~Method according to ~~claim~~Claim 1, wherein the ~~initial data to be transmitted~~ are formatted according to a protocol of a cabled bus.

3. (Currently amended) ~~The method~~Method according to ~~claim~~Claim 2 wherein the cabled bus is an IEEE 1394 bus, the first protocol for data transmission over ~~at~~the wireless network is HiperLAN/2 and the second protocol for data transmission over ~~at~~the wireless network is a protocol from a family of IEEE the 802.11 family prototcols.

4. (Currently amended) ~~The method~~Method according to ~~claim~~Claim 2, wherein the packets ~~used~~ are ~~generated~~constructed into the frame by an IEEE 1394 SCS module.

5. (Currently amended) ~~The method~~Method according to ~~claim~~Claim 1, wherein the ~~frame~~frames, ~~generated~~is constructed on the basis of the ~~from said~~ packets according to an intermediate format defined by ~~the~~ said certain layer or layers of the first protocol for data transmission over ~~at~~the wireless network, ~~the said constructed frame~~ frames being in accordance with the second protocol for data transmission over a wireless network, ~~are~~the constructed frame

being distinguished from ~~the~~ other frames transmitted over a wireless network by a specific identifier in the constructed frame.

6. (Currently amended) ~~The method~~Method according to ~~claim~~Claim 1, wherein the ~~frame~~frames, ~~generated~~is constructed on the basis of the ~~from said~~ packets according to an intermediate format defined by ~~the~~ said certain layer or layers of the first protocol for data transmission over ~~a~~the wireless network and in accordance with the second protocol for data transmission over a wireless network, ~~are~~the constructed frame being distinguished from ~~the~~ other frames through the use of specific MAC addresses identifying ~~their~~ origin and ~~their~~ destination of the constructed frame.

7. (Currently amended) ~~A data~~Data transmission apparatus, ~~containing~~comprising:

means ~~making it possible to receive frames~~for receiving a first frame according to ~~the~~a first protocol and formatted according to a cabled bus,

means ~~of connection~~for connecting to a wireless network,

a module for processing the ~~frame~~first frame formatted according to ~~a~~the cabled bus ~~so as to insert the data received on the cabled bus into a~~second frame according to a format defined by a ~~first~~second protocol for data transmission over ~~a~~the wireless network,

wherein the apparatus ~~contains~~further comprises means for generating ~~transmission frames~~the second frame for transmission in accordance with ~~a~~the second protocol for data transmission over ~~a~~the wireless network, the second protocol being different from the first protocol, on the basis of the said by inserting packets of said received data in which are inserted data received from the cabled bus, the said packets of said received data being formatted according to at least a certain layer or layers of the first protocol.

8. (Currently amended) ~~The apparatus~~Apparatus according to ~~claim~~Claim 7, wherein the cabled bus is an IEEE 1394 bus, the first protocol for data transmission over ~~a~~the wireless network is HiperLAN/2 and the second protocol for data transmission over a wireless network is a protocol from a family of IEEE the-802.11 protocols~~family~~.

9. (Currently amended) ~~The apparatus~~Apparatus according to ~~claim~~Claim 7, wherein ~~the generated frame comprises, as far as the second protocol is concerned, only the a certain layer or layers necessary for the encapsulation and the transmission of packets as said frame for transmission generated with the aid of the said certain layer or layers of the first protocol.~~

10. (New) The method according to Claim 5, wherein the specific identifier comprises a logical link control packet appended to an IEEE 802.11 frame.

11. (New) The method according to Claim 6, wherein the specific MAC addresses comprise first and second addresses, a first address at an IEEE 802.11 drive level and a second address created by repeating IEEE 802.11 authentication and association.